

This slide set "Hand Hygiene in Healthcare Settings-Supplemental" provides:

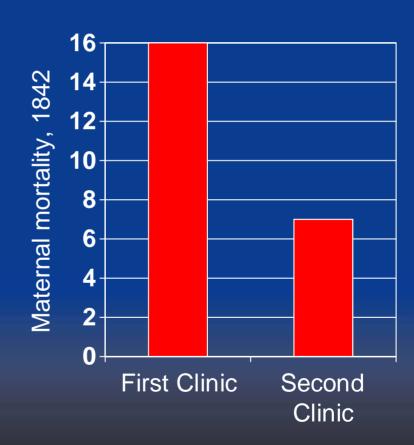
- 1) Slides that may be used in conjunction with the "Hand Hygiene in Healthcare Settings-Core" slide set.
- Question and answer slides to be used in an interactive presentation.
- 3) Slides containing information on topics related to hand hygiene (e.g., antimicrobial resistance).
- 4) Slides that you can customize by inserting data specific to your hospital.

The Hand Hygiene in Healthcare Settings-Supplemental slide set was developed in conjunction with the Chicago Antimicrobial Resistance Project [www.carp-net.org].

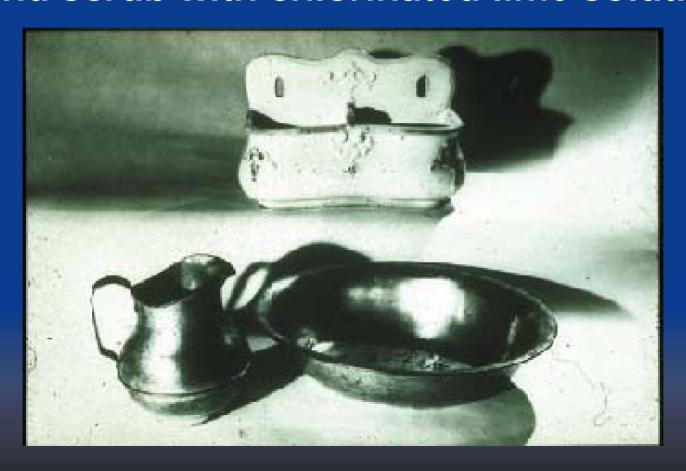
SAFER · HEALTHIER · PEOPLE

Ignaz Semmelweis, 1815-1865

- 1840's: General Hospital of Vienna
- Divided into two clinics, alternating admissions every 24 hours:
 - First Clinic: Doctors
 and medical students
 - Second Clinic:Midwives



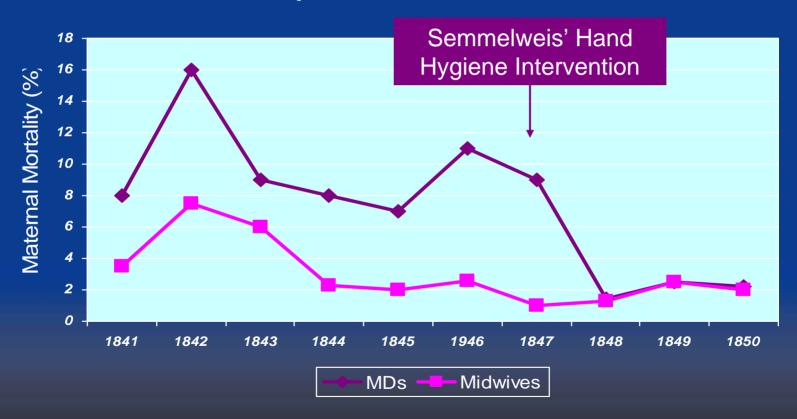
The Intervention: Hand scrub with chlorinated lime solution



Hand hygiene basin at the Lying-In Women's Hospital in Vienna, 1847.

Hand Hygiene: Not a New Concept

Maternal Mortality due to Postpartum Infection General Hospital, Vienna, Austria, 1841-1850



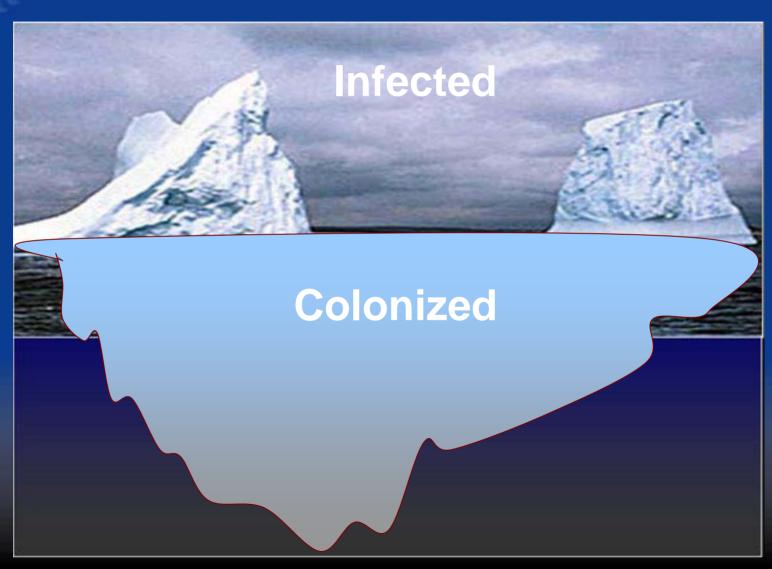
~ Hand antisepsis reduces the frequency of patient infections ~

Colonized or Infected: What is the Difference?

- People who carry bacteria without evidence of infection (fever, increased white blood cell count) are <u>colonized</u>
- If an infection develops, it is usually from bacteria that colonize patients
- Bacteria that colonize patients can be transmitted from one patient to another by the hands of healthcare workers
 - ~ Bacteria can be transmitted even if the patient is not infected ~

The Iceberg Effect





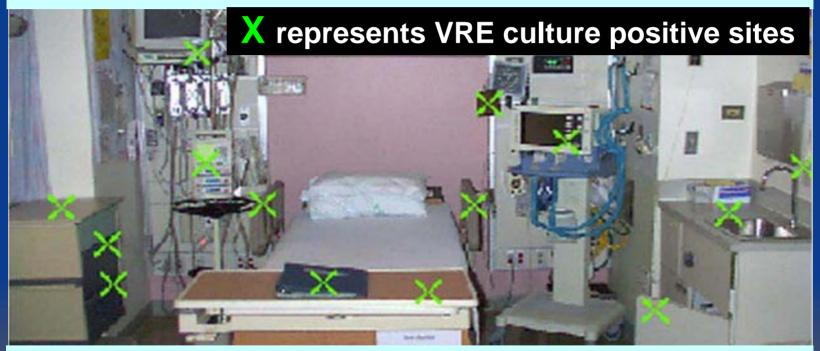
Recovery of VRE from Hands and Environmental Surfaces

- Up to 41% of healthcare worker's hands sampled (after patient care and before hand hygiene) were positive for VRE¹
- VRE were recovered from a number of environmental surfaces in patient rooms
- VRE survived on a countertop for up to 7 days²

¹ Hayden MK, Clin Infect Diseases 2000;31:1058-1065.

² Noskin G, Infect Control and Hosp Epidemi 1995;16:577-581.

The Inanimate Environment Can Facilitate Transmission



~ Contaminated surfaces increase cross-transmission ~

Abstract: The Risk of Hand and Glove Contamination after Contact with a VRE (+) Patient Environment. Hayden M, ICAAC, 2001, Chicago, IL.

What is the single most important reason for healthcare workers to practice good hand hygiene?

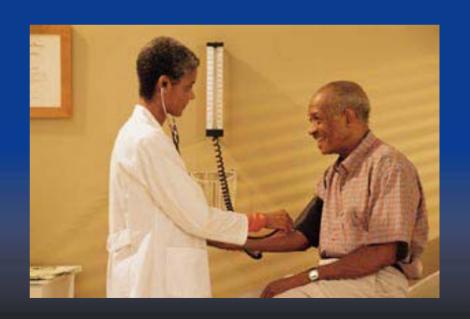
- 1. To remove visible soiling from hands
- 2. To prevent transfer of bacteria from the home to the hospital
- 3. To prevent transfer of bacteria from the hospital to the home
- 4. To prevent infections that patients acquire in the hospital

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- 1. To remove visible soiling from hands
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How often do you clean your hands after touching a <u>PATIENT'S INTACT</u> <u>SKIN</u> (for example, when measuring a pulse or blood pressure)?

- 1. Always
- 2. Often
- 3. Sometimes
- 4. Never



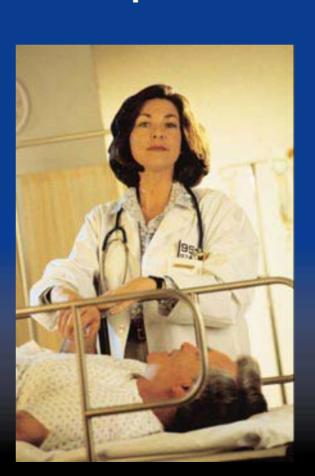
How often do you clean your hands after touching a <u>PATIENT'S INTACT</u> SKIN (for example, when measuring a pulse or blood pressure)?

- 1. Always
- 2. Often
- 3. Sometimes
- 4. Never



Estimate how often YOU clean your hands after touching a patient or a contaminated surface in the hospital?

- 1. 25%
- 2. 50%
- 3. 75%
- 4. 90%
- 5. 100%



Now, estimate how often <u>YOUR CO-WORKERS</u> clean their hands after touching a patient or a contaminated surface in the hospital?

- 1. 25%
- 2. 50%
- 3. 75%
- 4. 90%
- 5. 100%



Which method do you use to clean your hands at work?

- 1. Plain soap and water
- 2. Antimicrobial soap and water
- 3. Alcohol-based handrub



Which hand hygiene method is best at killing bacteria?

- 1. Plain soap and water
- 2. Antimicrobial soap and water
- 3. Alcohol-based handrub

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Which of the following hand hygiene agents is <u>LEAST</u> drying to your skin?

- 1. Plain soap and water
- 2. Antimicrobial soap and water
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- 1. Plain soap and water
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It is acceptable for healthcare workers to supply their own lotions to relieve dryness of hands in the hospital.

- 1. Strongly agree
- 2. Agree
- 3. Don't know
- 4. Disagree
- 5. Strongly disagree



It is acceptable for healthcare workers to supply their own lotions to relieve dryness of hands in the hospital.

- 1. Strongly agree
- 2. Agree
- 3. Don't know
- 4. Disagree
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How much time would an ICU nurse save during an 8 hour shift by using an alcohol-based handrub instead of soap and water?

- 1. 15 minutes
- 2. 30 minutes
- 3. 1 hour
- 4. 2.5 hours



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^{*} Based on 12 opportunities/hour, handwashing time=60 seconds, alcohol-based handrub time=20 seconds

Healthcare-associated organisms are commonly resistant to alcohol.

- 1. Strongly agree
- 2. Agree
- 3. Don't know
- 4. Disagree
- 5. Strongly disagree

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- 4. Disagree
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When a healthcare worker touches a patient who is *COLONIZED*, but not infected with resistant organisms (e.g., MRSA or VRE) the HCW's hands are a source for spreading resistant organisms to other patients.

- 1. Strongly agree
- 2. Agree
- 3. Don't know
- 4. Disagree
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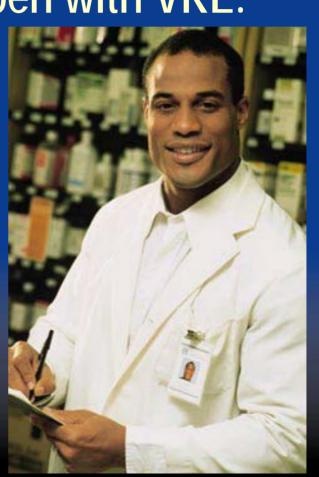
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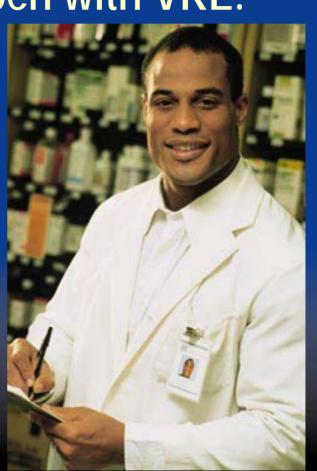
A co-worker who examines a patient with VRE, then borrows my pen without cleaning his/her hands is likely to contaminate my pen with VRE.

- 1. Strongly agree
- 2. Agree
- 3. Don't know
- 4. Disagree
- 5. Strongly disagree



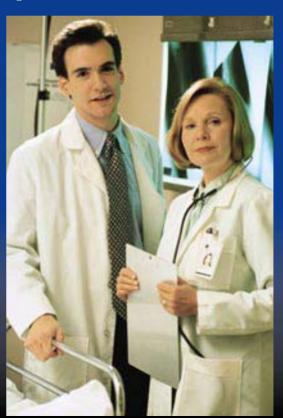
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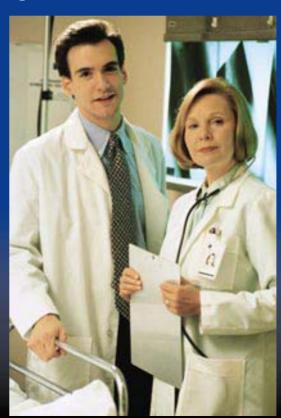
How often do you clean your hands after touching an *ENVIRONMENTAL SURFACE* near a patient (for example, a countertop or bedrail)?

- 1. Always
- 2. Often
- 3. Sometimes
- 4. Never



How often do you clean your hands after touching an *ENVIRONMENTAL SURFACE* near a patient (for example, a countertop or bedrail)?

- 1. Always
- 2. Often
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Use of artificial nails by healthcare workers poses no risk to patients.

- 1. Strongly agree
- 2. Agree
- 3. Don't know
- 4. Disagree
- 5. Strongly disagree

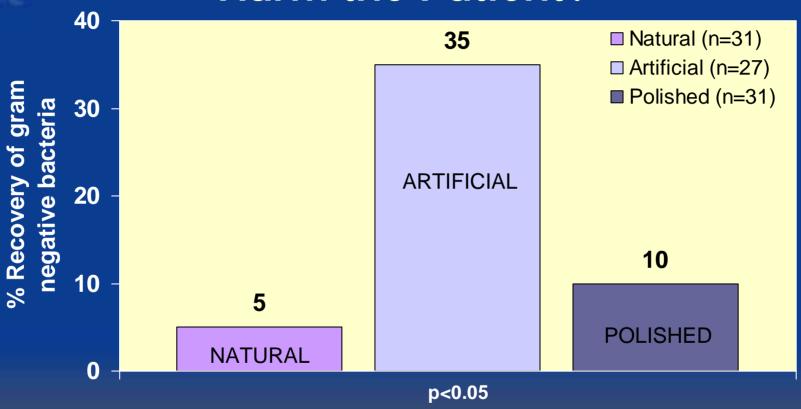


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- 1. Strongly agree
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Can a Fashion Statement Harm the Patient?



Avoid wearing artificial nails, keep natural nails <1/4 inch if caring for high risk patients (ICU, OR)

Glove use for all patient care contacts is a useful strategy for reducing risk of transmission of organisms.

- 1. Strongly agree
- 2. Agree
- 3. Don't know
- 4. Disagree
- 5. Strongly disagree



Glove use for all patient care contacts is a useful strategy for reducing risk of transmission of organisms.

- 1. Strongly agree
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- 3. Don't know
- 4. Disagree
- 5. Strongly disagree



At your hospital, what percentage of [insert organism name] isolates are resistant to [insert drug name]?

- 1. <5%
- 2. 15%
- 3. 20%
- 4. 30%
- 5. >50%



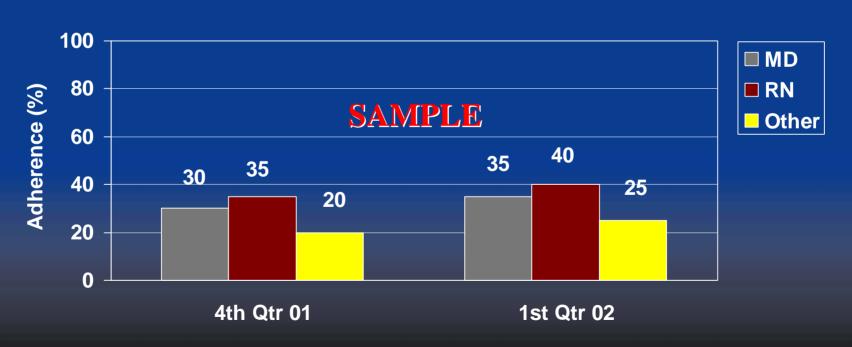
Insert graph showing annual, monthly, or quarterly trend in antimicrobial (e.g. MRSA) prevalence, or number of isolates at Hospital X below

Prevalence of MRSA at Hospital X



Insert facility-specific data on HCW hand hygiene adherence below

HCW Hand Hygiene Adherence at Hospital X



Hand Hygiene Options at Hospital X

Insert photo of liquid soap from Hospital X

Wet hands, apply soap and rub for >15 seconds.
Rinse, dry & turn off faucet with paper towel.

Apply to palm; rub hands until dry

Insert photo of alcohol handrub from Hospital X

~ Use soap and water for visibly soiled hands ~

~ Do not wash off alcohol handrub ~

What is the Story on Moisturizers and Lotions?

ONLY USE facility-approved and supplied lotions

Because:

- Some lotions may make medicated soaps less effective
- Some lotions cause breakdown of latex gloves
- Lotions can become contaminated with bacteria if dispensers are refilled

Insert
photo of
lotion
from
Hospital
X







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